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LMF

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STATEMENT OF THE CLAIMS

1. (currently amended) A thin film electrical heating element including an electrically conductive layer on an electrically insulating substrate, said electrically conductive layer substantially comprising a metal oxide doped with at least one rare earth element, wherein said thin film electrical heating element is stable at at least one of a power density greater than 10 watts cm⁻² and a temperature greater than 600°C.

2. (previously presented) A thin film electrical heating element according to claim 1 wherein said metal oxide is doped with at least two rare earth elements.

3. (previously presented) A thin film electrical heating element according to claim 2 wherein said two rare earth elements are present in said metal oxide layer in substantially equal concentrations.

4. (previously presented) A thin film electrical heating element according to claim 2 or 3 wherein said at least two rare earth elements include both cerium and lanthanum.

5. (previously presented) A thin film electrical heating element according to claim 1 wherein said metal oxide is tin oxide.